NOV 04 1991



STATE OF VERMONT AGENCY OF TRANSPORTATION 133 State Street, Administration Building

Montpelier, Vermont 05633



October 31, 1991

Charles B. Schwer, Supervisor Sites Management Section Agency of Natural Resources 103 So. Main Street Waterbury, Vermont 05676

Dear Chuck:

Finalosed are site maps for the following tank pull sites:

- (1) "Old Courthouse Building" St. Albans, Vermont Site # 91-1074
- (2) District 8 Maintenance Garage Enosburg, Vermont
- (3) District 7 Maintenance Garage Lyndon, Vermont
- (4) District 5 Maintenance Garage New Haven, Vermont



Site #1

The St. Albans site has definite contamination in MW-1. While no sheen was visible, there was a distinct fuel oil odor in samples taken between 7 and 11 feet below ground surface.

The indicated flow direction determined from a 3 point solution of the monitoring wells is N70W (true north) with a hydraulic gradient of 0.057.

Site #2

The Enosburg site had a PID reading of < 5 ppm from 0-3 feet below ground surface. However, no odor of petroleum was detected.

The indicated flow direction is S77W (true north) with a hydraulic gradient of $0.113 \cdot \dots \cdot \dots \cdot \dots$

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Site #3

The Lyndon site has no traces of petroleum in the three wells installed. It is conceivable that the plume could have missed the installed wells given the position of the old tank. At the time of the tank pull a sheen was visible on the water surface in the excavation.

The indicated flow direction at this site is N85W (true north) with a hydraulic gradient of $0.014\,.$

Site #4

The New Haven site showed no signs of petroleum contamination in the wells installed. In both monitoring wells 1 and 2 the contact between fill and the native clay soils was sampled in one split barrel. Both samples were clean.

The flow direction at this site appears to be S87W (true north) with a hydraulic gradient of 0.065.

Site #5

The Wilmington site produced no positive PID readings in the 2 wells installed. An existing well (MW-3), which was installed for a salt contamination study, was used as the up gradient well. The soils at this site are very granular in nature. One would anticipate rapid migration of any contamination at this site.

The calculated flow direction from the 3 wells indicated on the site map is S15E (true north) with a hydraulic gradient of 0.031.

If additional work is required at these sites, please contact Mike Morissette at the Maintenance Division 828-2797.

Sincerel

Alan J. McBean Chief Geologist

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AJM/sls

Enclosures

STATE OF VERMONT AGENCY OF TRANSPORTATION MATERIALS & RESEARCH DIVISION SOILS SUBDIVISION

AUGER DRILLING NOTES

PROJECT/PROJECT NO.: District DRILLER Raymond Powers NOTES FROM STATION	Maintenence Garage Wumington TO STATION TO STATION
	CHECKED BY A. McBean DATE CHECKED

	OFFSET	DEPTH	SOIL DESCRIPTION			
STATION OFFSET			Field			GAS DESERTION
	: :	Soil Type	Color	Moisture	PID READING	
1-wm		0-2	Loam	brn	M	ල
		2-4	5051	brn	WTW	6
		4-6	51500	bra	m	0
	ļ	6-8	Salar	brn	WTW	0
		8-9	Salar	prn	W	٥
	(Sur	ened	1 40	9.4	eet)	·
			· Market			
MW-2		0-2	Loam	brn	M	
		2-4	5000mg	brn	W	0
		4-6	55005906	brn	w '	<u> </u>
		6-8	515a	brn	W	0
		8-9	Sals Waters	90	N	6
	(50	reened	1 40	9 fe	et)	
MW-3	EX	sting	Well	- No	Data	
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